

FORM PTO-1449  
(REV. 7-80)ATTY DOCKET NO  
MIT-6834SERIAL NO  
08/366,083INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

APPLICANT Joel L. Pomerantz et al.FILING DATE  
December 29, 1994GROUP  
1636

## U.S. PATENT DOCUMENTS

| EXAM-<br>INER<br>INI-<br>TIAL |    | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|-------------------------------|----|--------------------|------|------|-------|---------------|-------------------------------|
|                               | AA |                    |      |      |       |               |                               |
|                               | AB |                    |      |      |       |               |                               |
|                               | AC |                    |      |      |       |               |                               |
|                               | AD |                    |      |      |       |               |                               |
|                               | AE |                    |      |      |       |               |                               |
|                               | AF |                    |      |      |       |               |                               |
|                               | AG |                    |      |      |       |               |                               |
|                               | AH |                    |      |      |       |               |                               |
|                               | AI |                    |      |      |       |               |                               |
|                               | AJ |                    |      |      |       |               |                               |
|                               | AK |                    |      |      |       |               |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO |
|--|----|--------------------|------|---------|-------|---------------|-----------------------|
|  | AL |                    |      |         |       |               |                       |
|  | AM |                    |      |         |       |               |                       |
|  | AN |                    |      |         |       |               |                       |
|  | AO |                    |      |         |       |               |                       |
|  | AP |                    |      |         |       |               |                       |
|  | AQ |                    |      |         |       |               |                       |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |  |
|----|----|--|
| mu | AR | Suckow, Manfred et al., "Creating New DNA Binding Specificities in the Yeast Transcriptional Activator GCN4 by Combining Selected Amino Acid Substitutions," <i>Nucleic Acids Research</i> , 22(12): 2198-2208 (1994). |
|    | AS | Jamieson, Andrew C. et al., "In Vitro of Zinc Fingers with Altered DNA-Binding Specificity," <i>Biochemistry</i> , 33: 5689-5695 (1994).   |
| ✓  | AT | Desjarlais and Berg, "Use of a Zinc-Finger Consensus Sequence Framework and Specificity Rules to Design Specific DNA Binding Proteins," <i>Proc. Natl. Acad. Sci.</i> , 90: 2256-2260 (1993).                          |

EXAMINER

Muckeberg

DATE CONSIDERED

11/6/98

FORM PTO-1449  
(REV. 7-80)ATTY. DOCKET NO.  
MIT-6834SERIAL NO.  
08/366,083INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

APPLICANT  
Joel L. Pomerantz et al.FILING DATE  
December 29, 1994GROUP  
1636

## U.S. PATENT DOCUMENTS

| EXAM-<br>INER<br>INI-<br>TIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|-------------------------------|--------------------|------|------|-------|---------------|-------------------------------|
|                               |                    |      |      |       |               |                               |
|                               |                    |      |      |       |               |                               |
|                               |                    |      |      |       |               |                               |
|                               |                    |      |      |       |               |                               |
|                               |                    |      |      |       |               |                               |
|                               |                    |      |      |       |               |                               |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |     |   |
|-----|-----|---|
| 774 | AU  | Rebar and Pabo, "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," <i>Science</i> , 262: 671-673 (1994).                                    |
|     | AV  | Pavletich and Pabo, "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," <i>Research Articles</i> , 809-817 (1991).                               |
|     | AW  | Klemm, Juli D. et al., "Crystal Structure of the Oct-1 POU Domain Bound to an Octamer Site: DNA Recognition with Tethered DNA-Binding Modules," <i>Cell</i> , 77: 21-32 (1994). |
|     | AX  | Laughon, Alan, "DNA Binding Specificity of Homeodomains†," <i>Biochemistry</i> , 30(48): 11357-11367 (1991).  |
|     | AY  | Verrijzer, C. Peter et al., "The DNA Binding Specificity of the Bipartite POU Domain and Its Subdomains," <i>The EMBO Journal</i> , 11(13):4993-5003 (1992).                    |
|     | AZ  | Youderian, Philip et al., "Changing the DNA-Binding Specificity of a Repressor," <i>Cell</i> , 35: 777-783 (1983).  |
|     | AR2 | Wharton and Ptashne, "Changing the Binding Specificity of a Repressor by Redesigning an α-Helix," <i>Nature</i> , 316: 601-605 (1985).  |
| ↓   | AS2 | Jencks, William P., "On the Attribution and Additivity of Binding Energies," <i>Proc. Natl. Acad. Sci</i> , 78(7):4046-4050 (1981).   |

EXAMINER

T. McKelvey

DATE CONSIDERED

11/6/98

|   |     |  |      |                                       |       |                          |                               |
|---|-----|--|------|---------------------------------------|-------|--------------------------|-------------------------------|
| FORM PTO-1449<br>(REV. 7-80)<br><b>INFORMATION DISCLOSURE CITATION--<br/>         IN AN APPLICATION</b><br><br><i>(Use several sheets if necessary)</i> |     |  |      | ATTY DOCKET NO.<br>MIT-6834           |       | SERIAL NO.<br>08/366,083 |                               |
|   |     |  |      | APPLICANT<br>Joel L. Pomerantz et al. |       |                          |                               |
|   |     |  |      | FILING DATE<br>December 29, 1994      |       | GROUP                    |                               |
| U.S. PATENT DOCUMENTS   |     |  |      |                                       |       |                          |                               |
| EXAM-<br>INER<br>INI-<br>TIAL   |     | DOCUMENT<br>NUMBER   | DATE | NAME                                  | CLASS | SUB-<br>CLASS            | FILING DATE IF<br>APPROPRIATE |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
|   |     |  |      |                                       |       |                          |                               |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |     |  |      |                                       |       |                          |                               |
| TMC   | AT2 | Murre and Baltimore, "The Helix-Loop-Helix Motif: Structure and Function," <i>Transcriptional Regulation</i> , 861-878 (1992).   |      |                                       |       |                          |                               |
|   | AU2 | Kim and Chandrasegaran, "Chimeric Restriction Endonuclease," <i>Proc. Natl. Acad. Sci.</i> , 91:883-887 (1994).  |      |                                       |       |                          |                               |
|   | AV2 | Park, Changmoon et al., "Design Superiority of Palindromic DNA Sites for Site-Specific Recognition of Proteins: Tests Using Protein Stitchery," <i>Proc. Natl. Acad. Sci.</i> , 90:4892-4896 (1993). |      |                                       |       |                          |                               |
|   | AW2 | Park, Changmoon et al., "Protein Stitchery: Design of a Protein for Selective Binding to a Specific DNA Sequence," <i>Proc. Natl. Acad. Sci.</i> , 89:9094-9096 (1992).                              |      |                                       |       |                          |                               |
|   | AX2 | Pomerantz and Sharp, "Homeodomain Determinants of Major Groove Recognition," <i>Biochemistry</i> , 33(36):10851-10858 (1994).  |      |                                       |       |                          |                               |
|   | AY2 | Pavletich and Pabo, "Crystal Structure of a Five-Finger GLI-DNA Complex: New Perspectives on Zinc Finger," <i>Science</i> , 261:1701-1707 (1993).  |      |                                       |       |                          |                               |
|   | AZ2 | De Wet, Jeffrey R., et al., "Firefly Luciferase Gene: Structure and Expression in Mammalian Cells," <i>Molecular and Cellular Biology</i> , 7(2):725-737 (1987).                                     |      |                                       |       |                          |                               |
| ↓   | AR3 | Wang, Yaolin et al., "A Regulatory System For Use in Gene Transfer," <i>Proc. Natl. Acad. Sci., USA</i> , 91:8180-8184 (1994).   |      |                                       |       |                          |                               |
| EXAMINER<br><i>TMC Kelsey</i>   |     |  |      | DATE CONSIDERED<br>11/6/98            |       |                          |                               |